

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE UPGRADING OF THE CROSSWALKS AND THE INSTALLATION APS/CPS FOR ALL PEDESTRIAN CROSSINGS. AND A NEW CROSSWALK IS TO BE ADDED ACROSS THE SOUTH LEG OF MD 187 (OLD GEORGETOWN ROAD) AT AUBURN AVENUE. MD 187 (OLD GEORGETOWN RD) IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA TWO PHASE, SEMI-TRAFFIC ACTUATED MODE. WITH THE MD 187 APPROACHES RUNNING CONCURRENTLY. AUBURN AVE. RUNS ALONE. THERE IS A CONCURRENT PEDESTRIAN PHASE ACROSS THE EAST LEG OF AUBURN AVE. AND ALTERNATE PEDESTRIAN PHASES ACROSS THE NORTH AND SOUTH LEG OF MD 187 (OLD GEORGETOWN RD).

SPECIAL NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.

THE CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AT (240) 777-8761 72 HOURS IN ADVANCE OF ALL WORK.

THE APS PUSHBUTTONS SHALL BE DELIVERED TO MR. KEITH LORD (301) 279-1291 AT THE MONTGOMERY COUNTY TECHNICAL CENTER BEFORE WORK BEGINS.

APS WILL FUNCTION AS FOLLOWS FOR CROSSING OLD GEORGETOWN RD:

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE "WAIT TO CROSS OLD GEORGETOWN AT AUBURN".

B. WHEN THE WALK PHASE BEGINS. THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS WILL FUNCTION AS FOLLOWS FOR CROSSING AUBURN AVE:

C. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE "WAIT TO CROSS AUBURN AT GEORGETOWN".

D. WHEN THE WALK PHASE BEGINS. THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST FOR AREA WIDE CONTRACT # XX4495185

A. EQUIPMENT TO BE SUPPLIED BY THE ADMIINSTRATION.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9086	1	1	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
1002	425	LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS. ANY WIDTH
2001	8	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5002	320	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5003	90	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
6001	140	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER
6002	600	SF	5 INCH CONCRETE SIDEWALK
8001	18	EA	12 INCH (R. Y. G) LED SIGNAL HEAD
8003	1	EA	2 WIRE CENTRAL CONTROL UNIT
8009	3	EA	ADJUST HANDHOLE TO GRADE
8010	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8011	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8014	6	EA	LED 16 INCH COUNTDOWN PEDESTRIAN HEAD
8016	1	EA	REMOVE & DISPOSE OF EQUIPMENT PER ASSIGNMENT
8018	1	EA	REMOVE FOUNDATION 12 INCH DEPTH
8027	75	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8028	80	SF	DETECTABLE WARNING SURFACES
8033	85	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8036	20	LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8046	15	SF	INSTALL OVERHEAD SIGN
8047	1	EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT
8055	675	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8057	750	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8059	375	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8060	135	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Jeffery Wentz
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
Utility Engineer
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: (410)-787-7650

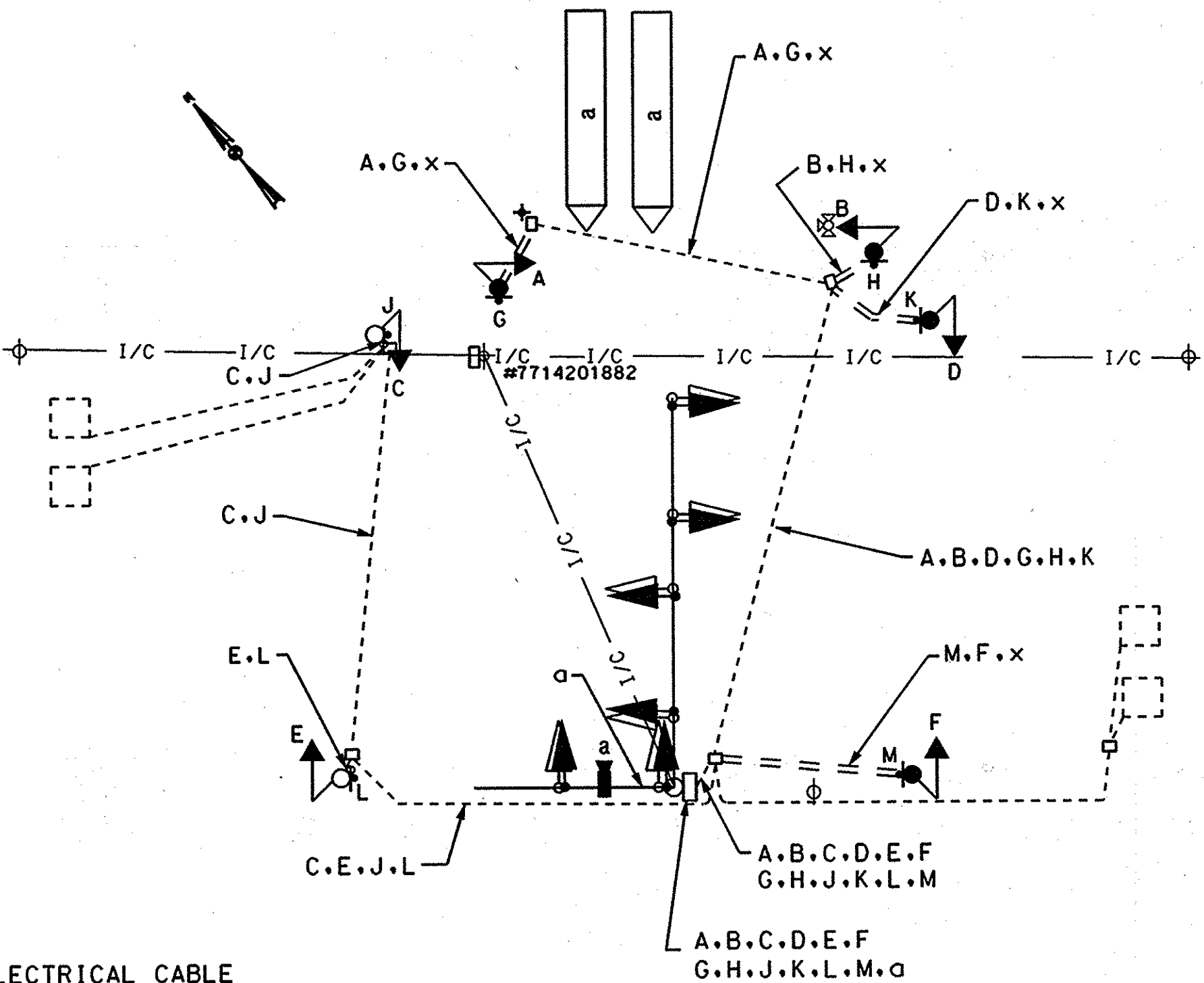
MR. KAMAL HAMUD
Montgomery County
Phone: 240-777-8761

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
(R)	(R)	(R)	(R)	(R)	(R)	(X)	(X)	(X)	(X)	(X)	(X)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(X)	(X)	(X)	(X)	(X)	(X)
(G)	(G)	(G)	(G)	(G)	(G)	(X)	(X)	(X)	(X)	(X)	(X)

PHASE 2 AND 6	G	G	G	G	R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	R	R	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	G	G	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A.B.C. } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- D.E.F } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G.H.J. } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- K.L.M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- a } VIDEO DETECTION CABLE
- x } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- + } GROUND ROD

NOTE:
THE CONTRACTOR IS TO REMOVE ALL UNUSED CABLE TO ENSURE COMPLIANCE WITH THE CONDUIT FILL REQUIREMENTS OF THE NEC.

TOD # XX449-08
SHA# MO527A53/B53

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 187 (OLD GEORGETOWN RD) AND AUBURN AVE.	
GENERAL INFORMATION SHEET	
SCALE: N.T.S. ADVERTISED DATE: 4-15-08 CONTRACT NO.: XX4495185	
DESIGNED BY: J. BOLING	COUNTY: MONTGOMERY
DRAWN BY: N. GUPTA	LOGMILE: 15018700.46
CHECKED BY: J. BOLING	TMS NO.: 1348
F.A.P. NO.:	TOD NO.:
TS NO. TS-3784B	DRAWING: - 1 OF 1
SHEET NO. 3 OF 3	

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PLOTTED: Thursday, June 28, 2006 AT 01:55 PM
FILE: J:\DATA\0449\0449-T000_MD187.dgn